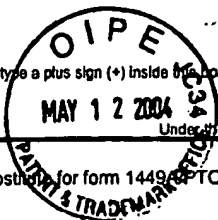


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Substitute for form 1449 USPTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 2

Application Number	10/722,348
Filing Date	November 25, 2003
First Named Inventor	Hui, et al.
Group Art Unit	2121
Examiner Name	
Attorney Docket Number	SAR 14610
Submission Date	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/JSS/	A1	US-2004/0001633 A1	01-01-2004	Caviedes	
↓	A2	US-2002/0090134 A1	07-11-2002	Van Zon	
	A3	US-6,643,410 B1	11-04-2003	Yu et al.	
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
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	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1					
	B2					
	B3					
	B4					
	B5					

Examiner

/Jeffrey Smith/

Date Considered

03/12/2007

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		Filing Date	November 25, 2003
		First Named Inventor	Hui, et al.
		Group Art Unit	2121
		Examiner Name	
		Attorney Docket Number	SAR 14610
Sheet 2	of 2	Submission Date	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/JSS/	C1	Liu, et al., "Objective Image Quality Measure for Block-Based DCT Coding," IEEE Transactions on Soncumer Electronics, 44(6), Dec. 1997, 2483-2488	
/JSS/	C2	Eskicioglu, et al., "Image Quality Measures and Their Performance," IEEE Transactionson Communications, 43 (12), Dec. 1995, 2959-2965	
/JSS/	C3	Wang, et al., "A Universal Image Quality Index," IEEE Signal Processing Letters, 9(3), March 2002, 81-84	
/JSS/	C4	Copy of International Search Report dated April 12, 2004 for corresponding PCT Application, PCT/US2003/037871	

Examiner	/Jeffrey Smith/	Date Considered	03/12/2007
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

of 1

Application Number	10/722,348
Filing Date	November 25, 2003
First Named Inventor	Hui et al
Group Art Unit	
Examiner Name	
Attorney Docket Number	SAR 14610
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		Number-Kind Code ² (if known)			
JSS/	A1	US-6,285,797 B1	09/04/2001	Lubin et al.	
	A2	US-			
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
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	A14	US-			
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	A18	US-			

FOREIGN PATENT DOCUMENTS

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	B4					
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Examiner

/Jeffrey Smith/

Date Considered

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